

Summary of Preliminary Aquifer Drawdown Analysis for the City of Victoria Ground V

Basic Input Data

City's Population:	65,000	Datum:	Sea Level	Porosity (%)	35.0
		Initial			
Number of Water Wells:	15	Reservoir		Permeability	Compressibility
GW Production Rate:	1,000	Press. PSI	350.0	(md)	4,700
	21,276	Ac-Ft/Yr	0.75	Thickness (Ft)	220
		Bbl/Day	Form. Vol. Fctr.	1.0	(1/PSI)

Model Results - Estimated Pressure and Hydrostatic Head Changes

Years of Operation	Drardown @ 1.0 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 1.0 Ft From No. 14 Well	Drardown @ 10 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 10 Ft From No. 14 Well	Drardown @ 100 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 100 Ft From No. 14 Well	Drardown @ 1000 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 1000 Ft From No. 14 Well
1	-24.3	-53.4	-19.3	-42.5	-14.3	-31.5	-9.3	-20.5
10	-26.9	-59.2	-21.8	-47.9	-16.8	-37.0	-11.8	-26.0
20	-27.6	-60.7	-22.6	-49.7	-17.6	-38.7	-12.5	-27.5
30	-28.1	-61.8	-23.0	-50.6	-18.0	-39.6	-13.0	-28.6
50	-28.6	-62.9	-23.6	-51.9	-18.6	-40.9	-13.5	-29.7

Years of Operation	Drardown @ 5000 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 5000 Ft From No. 14 Well	Drardown @ 30000 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 30000 Ft From No. 14 Well	Drardown @ 50000 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 50000 Ft From No. 14 Well	Drardown @ 80000 Ft From No. 14 Well PSI	Hydr. Head Change (Ft) @ 80000 Ft From No. 14 Well
1	-5.8	-12.8	-1.8	-4.0	-0.7	-1.5	0.0	0.0
10	-8.3	-18.3	-4.4	-9.7	-3.2	-7.0	-2.2	-4.8
20	-9.0	-19.8	-5.1	-11.2	-4.0	-8.8	-3.0	-6.6
30	-9.5	-20.9	-5.6	-12.3	-4.4	-9.7	-3.4	-7.5
50	-10.0	-22.0	-6.1	-13.4	-5.0	-11.0	-4.0	-8.8

Estimated Fluid Level Elevations (Feet Above/(Below) Sea Level) After Water Pro

Assume Aquifer Initial "Static" Fluid Level = 175 Feet Above Sea Level

Source: Fluid Level at A. Bade No. 1 (Well No. 22 in UEC's Map). Fluid Level Assumed Static

Years of Operation	Hydr. Head Change (Ft) @ 1.0 Ft From No. 14 Well		Fluid Level (Feet SL) @ 1.0 Ft. From No. 14 Well		Years of Operation	Hydr. Head Change (Ft) @ 10 Ft From No. 14 Well		Fluid Level (Feet SL) @ 10 Ft. From No. 14 Well		Years of Operation	Hydr. Head Change (Ft) @ 100 Ft From No. 14 Well		Fluid Level (Feet SL) @ 100 Ft. From No. 14 Well		Years of Operation	Hydr. Head Change (Ft) @ 1000 Ft From No. 14 Well		Fluid Level (Feet SL) @ 1000 Ft. From No. 14 Well	
1		-53.4		121.6			-42.5		132.5			-31.5		143.5			-20.5		154.5
10		-59.2		115.8			-47.9		127.1			-37.0		138.0			-26.0		149.0
20		-60.7		114.3			-49.7		125.3			-38.7		136.3			-27.5		147.5
30		-61.8		113.2			-50.6		124.4			-39.6		135.4			-28.6		146.4
50		-62.9		112.1			-51.9		123.1			-40.9		134.1			-29.7		145.3

Years of Operation	Hydr. Head Change (Ft) @ 5000 Ft From No. 14 Well		Fluid Level (Feet SL) @ 5000 Ft. From No. 14 Well		Years of Operation	Hydr. Head Change (Ft) @ 30000 Ft From No. 14 Well		Fluid Level (Feet SL) @ 30000 Ft. From No. 14 Well		Years of Operation	Hydr. Head Change (Ft) @ 50000 Ft From No. 14 Well		Fluid Level (Feet SL) @ 50000 Ft. From No. 14 Well		Years of Operation	Hydr. Head Change (Ft) @ 80000 Ft From No. 14 Well		Fluid Level (Feet SL) @ 80000 Ft. From No. 14 Well	
1		-12.8		162.2			-4.0		171.0			-1.5		173.5			0.0		175.0
10		-18.3		156.7			-9.7		165.3			-7.0		168.0			-4.8		170.2
20		-19.8		155.2			-11.2		163.8			-8.8		166.2			-6.6		168.4
30		-20.9		154.1			-12.3		162.7			-9.7		165.3			-7.5		167.5
50		-22.0		153.0			-13.4		161.6			-11.0		164.0			-8.8		166.2

Water Supply Wells

1.90E-05

Drardown @	Hydr. Head
1320 Ft From	Change (Ft) @
No. 14 Well	1320 Ft From
PSI	No. 14 Well
-8.7	-19.1
-11.2	-24.6
-11.9	-26.2
-12.4	-27.3
-12.9	-28.4

Drardown @	Hydr. Head
110000 Ft	Change (Ft) @
From No. 14	110000 Ft
Well PSI	From
No. 14 Well	No. 14 Well
0.0	0.0
-1.5	-3.3
-2.3	-5.1
-2.7	-5.9
-3.3	-7.3

roduction @ COV

Hydr. Head Change (Ft) @ 1320 Ft From No. 14 Well	Fluid Level (Feet SL) @ 1320 Ft. From No. 14 Well
-19.1	155.9
-24.6	150.4
-26.2	148.8
-27.3	147.7
-28.4	146.6

Hydr. Head Change (Ft) @ 110000 Ft From No. 14 Well	Fluid Level (Feet SL) @ 110000 Ft. From No. 14 Well
0.0	175.0
-3.3	171.7
-5.1	169.9
-5.9	169.1
-7.3	167.7